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09/996,271	11/28/2001	Amit Chakraborty	2000P09096 US01	2366

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Siemens Corporation  
Intellectual Property Department  
186 Wood Avenue South  
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EXAMINER
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ABEL JALIL, NEVEEN

ART UNIT	PAPER NUMBER
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2175

DATE MAILED: 11/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b> 09/996,271	<b>Applicant(s)</b> CHAKRABORTY ET AL.	
	<b>Examiner</b> Neveen Abel-Jalil	<b>Art Unit</b> 2175	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) ☐ Responsive to communication(s) filed on \_\_\_\_.

2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.

3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) ☒ Claim(s) 1-28 is/are pending in the application.

4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.

5) ☐ Claim(s) \_\_\_\_ is/are allowed.

6) ☒ Claim(s) 1-28 is/are rejected.

7) ☐ Claim(s) \_\_\_\_ is/are objected to.

8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) ☐ The specification is objected to by the Examiner.

10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.

12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All   b) ☐ Some \*   c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.

14) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.

15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). ____.
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>5, 6</u> .	6) <input type="checkbox"/> Other: _____

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-3, 5-15, 17-20, and 22 are rejected under 35 U.S.C. 102(e) as being anticipated by Goldberg et al. (U.S. Pub. No. 2002/0080170 A1).

As to claim 1, Goldberg et al. discloses a system for processing a multimedia data file to provide information supporting user navigation of multimedia data file content (See abstract, also see page figure 6), comprising:

a content parser to identify text and image content of a data file (See page 11, paragraph 0219);

an image processor for processing said identified image content to identify embedded text content (See page 12, paragraphs 0236-0238);

a text sorter for parsing said identified text and said identified embedded text to locate text items in accordance with predetermined sorting rules (See page 7, paragraphs 0141-0145);  
and

memory for storing a navigation file containing said text items (See page 11, paragraph 0216).

As to claim 2, Goldberg et al. discloses wherein the navigation file links to at least one internal document object (See page 11, paragraphs 0213-0214).

As to claim 3, Goldberg et al. discloses wherein the navigation file links to at least one external document object (See page 11, paragraph 0213).

As to claim 5, Goldberg et al. discloses wherein the content parser applies text extraction rules to identify text and identify a document structure, wherein the document structure defines a context for identified text (See page 11, paragraphs 0218-0220).

As to claim 6, Goldberg et al. discloses wherein the content parser applies pre-defined hierarchical rules for determining a level of identified text (See page 12, paragraph 0236, also see page 4, paragraph 0085, and see page 9, paragraph 0183).

As to claim 7, Goldberg et al. discloses wherein the image processor applies object templates to identify embedded text (See page 11, paragraph 0211).

As to claim 8, Goldberg et al. discloses wherein the system refines a search resolution during a text identifying process to determine a location of the embedded text within an image

(See page 11, paragraphs 0213-0329, also see page 15, paragraph 0241).

As to claim 9, Goldberg et al. discloses wherein identified text comprises hyperlinks (See page 7, paragraph 0142).

As to claim 10, Goldberg et al. discloses a graphical User interface system supporting processing of a multimedia data file to provide information supporting user navigation of multimedia data file content (See page 7, paragraph 0148), comprising:

a menu generator for generating, one or more menus permitting User selection of, an input file and format to be processed (See page 5, paragraphs 00110-0115); and

an icon permitting User initiation of generation of a navigation file supporting linking of input file elements to external documents by parsing and sorting text and image content to identify text for incorporation in a navigation file (See page 5, paragraphs 0109-0119).

As to claim 11, Goldberg et al. discloses wherein identified text comprises hyperlinks (See page 7, paragraph 0142).

As to claim 12, Goldberg et al. discloses wherein the navigation file further comprises links to at least one internal document object.

As to claim 13, Goldberg et al. discloses a method of creating an anchorable information unit in a portable document format document (See page 12, paragraph 0228), comprising the steps of:

extracting a text segment from the portable document format document (See page 12, paragraph 0228);

determining a context of the segment, wherein the context is selected from a context sensitive hierarchical structure (See page 4, paragraphs 0085-0093, also see page 15, paragraphs 0248- 0250); and

defining the text segment as an anchorable information unit according to the context (See page 15, paragraphs 0250-0251).

As to claim 14, Goldberg et al. discloses wherein the portable document format document (See page 12, paragraph 0228) includes one or more textual objects including and one or more non-textual objects, wherein the objects includes textual segments (See page 12, paragraphs 0237-0238, also see abstract).

As to claim 15, Goldberg et al. discloses wherein the step of determining the context further comprises the steps of:

comparing the text segment to a plurality of known patterns within the portable document format document (See pages 6-7, paragraphs 0140-0148); and

determining the context upon determining a matching the text segment and a known pattern of the portable document format document (See pages 16-17, paragraphs 0281-0282).

As to claim 17, Goldberg et al. discloses wherein the portable document format document includes a known context sensitive hierarchical structure (See page 12, paragraphs 0228-0238).

As to claim 18, Goldberg et al. discloses wherein the context sensitive hierarchical structure, including the anchorable information unit is searchable (See page 7, paragraphs 0143-0149).

As to claim 19, Goldberg et al. discloses wherein the context includes a location for the extracted text segment (See page 19, claims 44-45 language).

As to claim 20, Goldberg et al. discloses wherein the step of determining a context further comprises the step of determining a location and a style of the text segment (See page 9, paragraphs 0171-0176).

As to claim 22, Goldberg et al. discloses wherein the anchorable information unit is automatically hyperlinked (See page 7, paragraph 0142).

***Claim Rejections - 35 USC § 103***

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3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claims 4, 23, 25-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (U.S. Pub. No. 2002/0080170 A1) in view of Jones et al. (U.S. Pub. No. 2001/0047373 A1).

As to claim 4, Goldberg et al. does not teach wherein the image processor comprises a black and white image processor comprising:

a pixel smearing component reducing text to a rectangular block of pixels; and  
an image filtering component for cleaning a smeared image.

Jones et al. teaches wherein the image processor comprises a black and white image processor comprising:

a pixel smearing component reducing text to a rectangular block of pixels; and  
an image filtering component for cleaning a smeared image (See page 7, paragraphs 0068-0069).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. to include wherein the image processor comprises a black and white image processor comprising:



a pixel smearing component reducing text to a rectangular block of pixels; and an image filtering component for cleaning a smeared image.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. by the teaching of Jones et al. to include wherein the image processor comprises a black and white image processor comprising:

a pixel smearing component reducing text to a rectangular block of pixels; and an image filtering component for cleaning a smeared image because it provides for clearer and cleaner image and more accurate retrieved data.

As to claim 23, Goldberg et al. discloses a program storage device readable by machine, tangibly embodying a program of instructions executable by the machine (See page 10, paragraph 0204) to perform method steps for creating an anchorable information unit file from a portable document format document (See page 15, paragraphs 0248-0251), the method steps comprising:

parsing the portable document format document into textual portions and non-text portions (See page 11, paragraph 0219);

extracting structure from the textual portions and the non-text portions (See page 12, paragraphs 0236-0238);

determining text within textual portions, and text the non-text portions (See page 11, paragraphs 0212-0214); and

hyperlinking within the textual portions and non-text portions to a related document (See page 7, paragraphs 0142-0145).

Goldberg et al. does not teach a plurality of keywords.

Jones et al. teaches a plurality of keywords (See page 9, paragraph 0090, also see page 10, claim 10 language).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. to include a plurality of keywords.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. by the teaching of Jones et al. to include a plurality of keywords because it provides for faster and more accurate database storage and retrieval; this method is currently used by well-known search engines.

As to claim 25, Goldberg et al. as modified discloses wherein the step of extracting further comprises the steps of:

determining a level for extracted textual portions;

associating the context with the text; and

pattern matching extracted text to the portable document format document to determine a context and a location (See page 15, paragraphs 0241-0251, also see page 11, paragraphs 0212-0214).

As to claim 26, Goldberg et al. as modified discloses wherein the level is one of a paragraph, a heading and a subheading (See Jones et al. figure 9b).

As to claim 27, Goldberg et al. as modified discloses wherein the step of pattern matching (See page 7, paragraph 0148) further comprises the steps of:

determining a median font size for the portable document format document;  
comparing a font size of the extracted text to the median font size for the portable document format document; and  
determining a context according to font size (See page 3, paragraphs 0053-0054, also see Jones et al. page 5, paragraphs 0052-0053).

As to claim 28, Goldberg et al. as modified discloses wherein the step of hyperlinking further comprises the step of creating the anchorable information unit file, wherein the plurality of keywords are anchorable information units (See Jones et al. page 6, paragraphs 0057-0060).

5. Claims 16, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (U.S. Pub. No. 2002/0080170 A1) in view of Rothermel (U.S. Pub. No. 2002/0035451 A1).

As to claim 16, Goldberg et al. discloses wherein the step of extracting text further comprises the step of:

extracting text form an underlying image of the portable document format document;  
determining a type for the image, a grayscale image, and a color image (See page 19, claim 43 language, also see page 16, paragraphs 0273-0276); and

processing the image according to the type (See page 16, paragraphs 0273-0279).

Goldberg et al. does not teach wherein the type is one of a black and white image.

Rothermel teaches wherein the type is one of a black and white image (See page 2, paragraph 0017, also see page 4, paragraph 0035).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. to include wherein the type is one of a black and white image.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. by the teaching of Rothermel to include wherein the type is one of a black and white image because it provides for user customizable image retrieval and accurate representation for stored image.

As to claim 21, Goldberg et al. does not teach further comprising the step of storing an extracted text segment in a Standard Generalized Markup Language syntax using a predefined grammar.

Rothermel teaches further comprising the step of storing an extracted text segment in a Standard Generalized Markup Language syntax using a predefined grammar (See pages 2-3, paragraphs 0019-0024).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. to include further comprising the step of storing an extracted text segment in a Standard Generalized Markup Language syntax using a predefined grammar.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to have modified Goldberg et al. by the teaching of Rothermel to include further comprising the step of storing an extracted text segment in a Standard Generalized Markup Language syntax using a predefined grammar because SGML provides less processing by maximizing limited memory and disk space by providing a complex set of “minimization” rules.

6. Claim 24 is rejected under 35 U.S.C. 103(a) as being unpatentable over Goldberg et al. (U.S. Pub. No. 2002/0080170 A1) in view of Jones et al. (U.S. Pub. No. 2001/0047373 A1) as applied to claims 23, 25-28 and further in view of Rothermel (U.S. Pub. No. 2002/0035451 A1).

As to claim 24, Goldberg et al. as modified discloses wherein the step of parsing further comprises the step of differentiating color image content (See page 3, paragraph 0024).

Goldberg et al. as modified still does not teach from black-and-white content.

Rothermel teaches from black-and-white content (See page 2, paragraph 0017, also see page 4, paragraph 0035).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention was made to have further modified Goldberg et al. as modified to include from black-and-white content.

It would have been obvious to one of ordinary skill in the art at the time of the invention was made to have further modified Goldberg et al. as modified by the teaching of Rothermel to include from black-and-white content because it provides for user customizable image retrieval and accurate representation for stored image.

***Conclusion***

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Ainsbury et al. (U.S. Patent No. 6,078,924) teaches method for performing data collection in an information platform.

Sweet et al. (U.S Patent No. 6,567,799 B2) teaches retrieving documents transitively linked to an initial document.

Baclawski (U.S. Patent No. 6,505,191 B1) teaches distributed computer database for employing hyperlinked analysis.

Marchisio (U.S. Patent No. 6,510,406 B1) teaches inverse inference engine for high performance web search.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Neveen Abel-Jalil whose telephone number is 703-305-8114. The examiner can normally be reached on 8:00AM-4: 30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dov Popovici can be reached on 703-305-3830. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-3900.

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Neveen Abel-Jalil  
October 31, 2003

  
**CHARLES RONES**  
**PRIMARY EXAMINER**